



**Product:** [1335A](#)

Fieldbus, 2 C #16 Str TC, PO Ins, OS+TC Brd, PVC Jkt, CM

[Request Sample](#)

### Product Description

Fieldbus, 2 Conductor 16AWG (7x24H) Tinned Copper, PO Insulation, Overall Beldfoil®+Tinned Copper Braid(65%) Shield, Orange PVC Outer Jacket, CM

### Technical Specifications

#### Product Overview

Suitable Applications:	harsh environment digital and serial two-way communication, oil and gas extraction and refining sites, petrochemical, Profibus process automation or Foundation FieldBus process automation, extreme temperature environments, exposure to humidity/moisture, dust, and oil, remote locations long distance applications, etc.
------------------------	--

#### Physical Characteristics (Overall)

##### Conductor

AWG	Stranding	Material	No. of Pairs
16	7x24	TC - Tinned Copper	1

Conductor Count:	2
------------------	---

##### Insulation

Material
PP - Polypropylene

##### Color Chart

Number	Color
1	Blue & Orange

##### Outer Shield

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	20	7x28
Braid	2	Tinned Copper (TC)		65%			

##### Outer Jacket

Material	Nominal Diameter	Ripcord
PVC - Polyvinyl Chloride	0.34 in	Yes

#### Electrical Characteristics

##### Conductor DCR

Max. Outer Shield DCR	Nominal Conductor DCR
4.9 Ohm/1000ft	4.2 Ohm/1000ft

##### Capacitance

Max. Capacitance Unbalance	Nom. Capacitance Conductor to Shield	Nom. Mutual Capacitance
1.2 pF/ft	45 pF/ft	24 pF/ft

##### Impedance

Nominal Characteristic Impedance
100 Ohm

##### High Frequency (Nominal/Typical)

<b>Nom. Insertion Loss</b>
0.066 dB/100ft

#### Delay

<b>Nominal Velocity of Propagation (VP) [%]</b>
66%

#### High Frequency

<b>Max. Insertion Loss (Attenuation)</b>	<b>Max./Min. Input Impedance (unFitted)</b>
0.091 dB/100ft	100 Ohm

#### Current

<b>Element</b>	<b>Max. Recommended Current [A]</b>
Per Conductor	8 Amps per Conductor

#### Voltage

<b>UL Voltage Rating</b>
300 V RMS

Electrical Characteristics Notes:	Max Propagation Delay Change From 7.812 kHz to 39.06 kHz: 518 pS/ft
Other Electrical Characteristic 2:	31.25 KBits/sec

#### Temperature Range

UL Temp Rating:	90°C
Operating Temperature Range:	-30°C to +90°C

#### Mechanical Characteristics

Oil Resistance:	Yes
UV Resistance:	Yes
Bulk Cable Weight:	79 lbs
Max. Pull Tension:	84 lbs
Min. Bend Radius/Minor Axis:	3.4 in

#### Standards

NEC Articles:	Article 725, Article 727, Article 800
NEC/(UL) Compliance:	CM, ITC, PLTC
CEC/C(UL) Compliance:	CM
CPR Euroclass:	Eca

#### Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

#### Suitability

Suitability - Burial:	Yes - UL
Suitability - Indoor:	Yes
Suitability - Oil Resistance:	Yes
Suitability - Outdoor:	Yes
Suitability - Sunlight Resistance:	Yes

#### Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 UL Loading
UL voltage rating:	300 V RMS

## Plenum/Non-Plenum

Plenum (Y/N): No

## Related Part Numbers

### Variants

Item #	Color	Put-Up Type	Length	UPC
1335A 0061000	Blue, Light	Reel	1,000 ft	612825112198
1335A 0031000	Orange	Reel	1,000 ft	612825112167

Footnote: C - CRATE REEL PUT-UP.

## History

Update and Revision: Revision Number: 0.508 Revision Date: 04-30-2024

© 2025 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.